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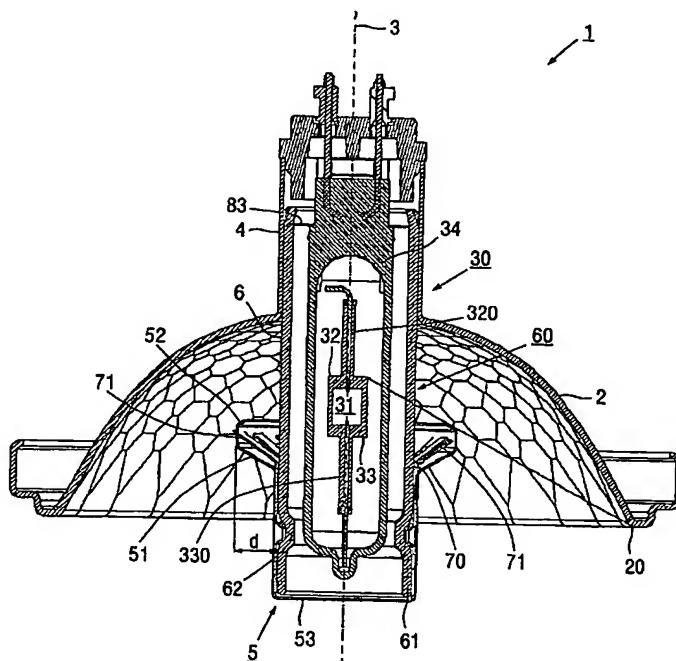
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[Continued on next page]

(54) Title: LAMP AND METHOD OF MANUFACTURING A LAMP



(57) Abstract: A lamp comprising an elongate light source and a coaxially transparent sleeve (60) surrounding the light source, wherein the light source is fixed at one end in the sleeve by means of a cured cement (80), wherein a cement barrier (83) is present between the light source and the sleeve for preventing the cement in its uncured state from entering the middle portion of the lamp, and wherein said cement barrier is made of a somewhat flexible material.

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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 949 003 A (COX ET AL) 14 August 1990 (1990-08-14) column 5, lines 40-42; figure 2 column 6, lines 6-13	1-3,11, 12
A	-----	4-10
A	DE 36 11 788 A1 (PATENT-TREUHAND-GESELLSCHAFT FUER ELEKTRISCHE GLUEHLAMPEN MBH; PATENT-) 15 October 1987 (1987-10-15) column 3, lines 30-34; figure 1	1-12
A	GB 2 176 587 A (* THORN EMI PLC) 31 December 1986 (1986-12-31) page 2, lines 7-11; figures 1,3 -----	1-12
		-/-

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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 698 936 A (MARIEN ET AL) 16 December 1997 (1997-12-16) column 2, lines 53,54 column 3, lines 4,53-57 column 4, lines 6-27 -----	1-12
A	EP 1 005 061 A (PHOENIX ELECTRIC CO., LTD) 31 May 2000 (2000-05-31) paragraph '0052!; figures 2,3 -----	1-12
A	EP 0 414 312 A (N.V. PHILIPS' GLOEILAMPENFABRIEKEN; PHILIPS PATENTVERWALTUNG GMBH) 27 February 1991 (1991-02-27) column 2, lines 33-53; figure 1 -----	1-12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050642

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4949003	A	14-08-1990	NONE		
DE 3611788	A1	15-10-1987	NONE		
GB 2176587	A	31-12-1986	DE	8615237 U1	31-07-1986
US 5698936	A	16-12-1997	CN DE DE EP WO JP JP	1150496 A ,C 69602689 D1 69602689 T2 0758486 A1 9627205 A1 3572080 B2 9512953 T	21-05-1997 08-07-1999 09-12-1999 19-02-1997 06-09-1996 29-09-2004 22-12-1997
EP 1005061	A	31-05-2000	JP DE EP US	2000164026 A 69919817 D1 1005061 A1 6280061 B1	16-06-2000 07-10-2004 31-05-2000 28-08-2001
EP 0414312	A	27-02-1991	EP HU JP US	0414312 A1 54829 A2 3095853 A 5053935 A	27-02-1991 28-03-1991 22-04-1991 01-10-1991